UNITED NATIONS DEVELOPMENT PROGRAMME

UNDP

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DP/PROJECTS/2961
(IND/73/016)
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APPROVAL OF LARGE-SCALE UNDP ASSISTANCE TO A PROJECT OF THE GOVERNMENT OF INDIA

Project title and Number:	Development of Newer Fibres and Composites (Supplementary assistance) (IND/73/016)
Executing Agency:	United Nations Industrial Development Organization (UNIDO)
Government co-operating agency:	Department of Science and Technology
Date of approval:	February 1978
Estimated starting date for project operations:	January 1975 (Including previous assistance)
Duration:	Five years 1/
Estimated value of the Government input expressed in US dollars:	$999 400 (in kind)
Estimated UNDP additional contribution:	$162 200
Source of UNDP financing:	Indicative Planning Figure (IPF)

I. Background

1. In its efforts to improve the economic situation in India the Government is seeking ways to provide employment and improve living conditions for its people, and to improve the country's balance of payments. Labour-intensive technology in both the agricultural and industrial sectors is sought as a solution for improvement. The objective of the present project, for which UNDP assistance was initially approved in January 1975 2/ (excluding preparatory assistance in April/May 1974), is to assist the Government of India in the introduction and development of labour-intensive technology of composite materials (such as carbon fibre and reinforced plastics), which have application in agriculture, fisheries and the chemical industry.

1/ Excluding a one month preparatory assistance mission in April/May 1974.

2/ DP/PROJECTS/757.

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Established research laboratories in India which possess expertise in various fields were to aid in achieving the project's objective.

2. The project has progressed well in the development of fibre composites for use in grain silos, fishing boats and low-cost housing. The training programmes have been completed. The supplementary assistance is required for the purchase of a graphite furnace to be used in the making of carbon fibres.

II. The project

3. The project will continue to assist in the development of: (a) precursory materials for glass, carbon and other fibres; (b) the composite process; and (c) special purpose reinforcing fibres. Research is to be carried out in the processing of fibre with the goal of maximizing mechanical strength. This project will also promote the idea of composite material use and train engineering personnel in the production and use of fibres and composites.

4. UNDP provides, through the Executing Agency, experts for various phases of the work, as well as a senior expert who acts as technical co-ordinator; equipment and supplies (including raw materials); and training in composite materials development at six research centres. The Government of India is providing the research centres, and will ensure local staffing at the centres.

5. The expenditure components of the planned assistance are as follows:

	Previously approved $	Present approval $	Total approved $
Personnel	159 900	56 300	216 200
Training	59 400	7 600	67 000
Equipment	300 000	93 300	393 300
Miscellaneous	37 900	5 000	42 900
	557 200	162 200	719 400

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